Translation

PATENT COOPERATION TREATY

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PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference FP-173/S/WO	FOR FURTHER ACT	ION	See Form PCT/IPEA/416				
International application No.	International filing date		Priority date (day/month/year)				
PCT/JP2003/012703	03 October 2003	(03.10.2003)	10 October 2002 (10.10.2002)				
International Patent Classification (IPC) or n A43B 5/10, 13/14	ational classification and l	IPC					
Applicant SUN	/IITOMO RUBBER I	NDUSTRIES, I	LTD.				
							
This report is the international prelir Authority under Article 35 and trans	ninary examination report mitted to the applicant acc	, established by this cording to Article 3	S International Preliminary Examining 6.				
2. This REPORT consists of a total of	2. This REPORT consists of a total of4 sheets, including this cover sheet.						
3. This report is also accompanied by A	3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which super beyond the disclo Supplemental Box	sure in the international a	which this Authority pplication as filed,	y considers contain an amendment that goes as indicated in item 4 of Box No. I and the				
	, containing dicated in the Supplement	ng a sequence listin	pe and number of electronic carrier(s)) g and/or tables related thereto, in computer o Sequence Listing (see Section 802 of the				
4. This report contains indications relat	ting to the following items	:					
Box No. I Basis of the report							
Box No. II Priority							
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited							
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of this report					
19 April 2004 (19.04.2	004)	08 November 2004 (08.11.2004)					
Name and mailing address of the IPEA/JP	A	Authorized officer					
Facsimile No.	T	elephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/012703

Box No	U. 1	Basis of the report	
1. With othe	h regard rwise in	d to the language, this report is based on the international application in the language in which it was filed, unle ndicated under this item.	ess
	This whic	s report is based on translations from the original language into the following language	. ,
		international search (under Rules 12.3 and 23.1(b))	
1		publication of the international application (under Rule 12.4)	
İ		international preliminary examination (under Rules 55.2 and/or 55.3)	•
	are not The in	d to the elements of the international application, this report is based on <i>(replacement sheets which have the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally annexed to this report): International application as originally filed/furnished escription:</i>	e been y filed"
	pages	as originally filed/i	furnished
	pages'	received by this Authority on	
	pages*	received by this Authority on	
	the cla	aims:	
	pages	oo originally Cl. 40	· · · · ·
	pages*	*, as originally filed/f	
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	pages*		
	the dra	awings:	
	pages		
	pages*	received by this Authority on	urnished
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	2 560116		
ш	a soque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.		nendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
	t	the drawings, sheets/figs	
	ti	the sequence listing (specify):	
	a	any table(s) related to sequence listing (specify):	
-	(Rule 70 th	sport has been established as if (some of) the amendments annexed to this report and listed below had not be since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental B (70.2(c)). The description, pages	een Box
		ies, some or all of those sheets may be marked "superseded."	



Intern. al application No.
PCT/JP03/12703

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-9	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-9	NO
Industrial applicability (IA)	Claims	1-9	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Document 1: JP, 7-213304, A (SUMITOMO RUBBER INDUSTRIES, LTD.), 15 August 1995 Document 2: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 62300/1981 (Laid-open No. 172504/1982) (NIPPON GOMU K.K.), 30 October 1982

Document 3: WO, 89-08996, A1 (CHARLES-MERIE BENETEAU), 05 October 1989

Document 4: US, 2930149, A (RIPPLE SOLE CORPORATION), 29 March 1960

Document 5: JP, 2000-106903, A (MIDORI ANZEN INDUSTRY CO.), 18 April 2000

Document 6: JP, 7-236503, A (BRIDGESTONE SPORTS CO., LTD.), 12 September 1995

Document 7: JP, 2002-17403, A (SUMITOMO RUBBER INDUSTRIES, LTD.), 22 January 2002

The subject matter of claims 1-3 does not involve an inventive step on account of documents 1-4.

Document 1 states that with respect to a tennis shoe, improving the balance between the sliding performance and gripping performance in the direction needed when running is very important, that sliding performance needed when playing tennis is when dashing and stopping, i.e. when stopping rapidly, and the direction that needs sliding performance is mainly toward the direction of the toes, and gripping performance is needed when dashing and when suddenly changing direction to go sideways, and that the direction that needs gripping performance is the heel direction and the direction 60° from one's toes.

Documents 2-4 describe providing the bottom surface of a shoe with a plurality of parallel ridges whose lateral cross-section shape is nonsymmetrical. In particular, document 2 says "the cross-section shape of wave-shaped projecting body 2 ... does not matter as long as it is another shape (Fig. 7) with remarkable anti-sliding properties, but to summarize, it is important that it be a structure able to withstand the impact force, kicking force, etc. applied when running." (Specification, page 4, line 18 to page 5, line 3). It describes providing a plurality of parallel ridges whose lateral cross-section shape is nonsymmetrical, and describes improving gripping performance in the heel direction (it is obvious that the coefficient of friction in the toe direction is smaller than the coefficient of friction in the heel direction).

The subject matter of claim 4 does not involve an inventive step on account of documents 1-5.

Document 5 describes setting the design height of the projecting part provided at a slip-resistant shoe bottom between 1 mm and 7 mm.



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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of Box V:

The subject matter of claim 5 does not involve an inventive step on account of documents 1-6. Document 6 pertains to a design pattern for forming a tennis shoe bottom, and says the design pattern extending laterally to prevent slipping in the forward and backward directions corresponds to the design pattern extending vertically to prevent slipping in the left and right directions.

The subject matter of claims 6-9 does not involve an inventive step on account of documents 1-7.

Document 7 describes forming a grip region with a necessary ratio at a required site on the bottom of a tennis shoe.